

PATENT ABSTRACTS OF JAPAN

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(54) PRODUCTION OF PROANTHOCYANIDIN

(57)Abstract:

PURPOSE: To recover proanthocyanidin at high rate and in high purity from a proanthocyanidin-contg. solution.

CONSTITUTION: A proanthocyanidin-contg. solution is adsorbed onto a polystyrene-based adsorptive resin, and the resulting resin is dried and then leached using a solvent of low polarity, thus recovering the objective proanthocyanidin.

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Filing date: July 29, 1992

Applicant: HOJO-SEIANSHO Co., Ltd.

Inventor: Shoji Horii

Title of the Invention:

Method for producing proanthocyanidins

Claim:

1. A method for producing proanthocyanidins comprising,
treating a proanthocyanidin-containing solution with a
polystyrene resin for adsorption;
drying the resultant resin; and
eluting proanthocyanidins with the use of a polar solvent,
wherein the polar solvent has a small polarity.

Column 2, lines 24 to 27

The present invention provides a method for recovering and producing proanthocyanidins from a proanthocyanidin-containing solution with high purity and high recovery, and at low cost.

Column 2, line 30 to Column 3, line 21

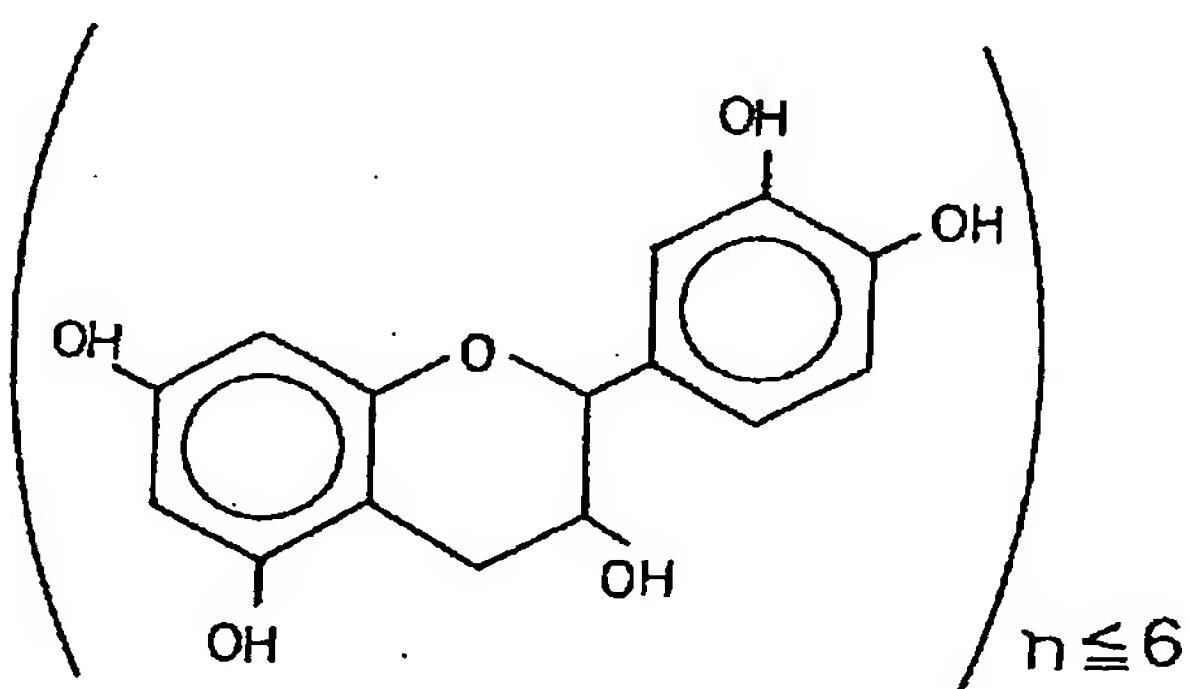
[0007]

[Means for Solving the Problems] The method for producing

proanthocyanidins of the present invention comprises the processes of treating a proanthocyanidin-containing solution with a polystyrene resin for adsorption; drying the resultant resin; and eluting proanthocyanidins with the use of a polar solvent, wherein the polar solvent has a small polarity. The proanthocyanidins relating to the present invention are contained in most of the naturally occurring plants. The proanthocyanidins refer to condensation products having flavan-3-ol as a constituent unit and having low degree of polymerization of 2 to 6. The proanthocyanidins are shown by a following general formula.

[0008]

[Compound 1]



[0009] As the proanthocyanidin-containing solution, which is a raw material, any solution containing proanthocyanidins can be employed. The solution containing impurities such as protein or the like can also be employed as the raw material. Examples of such solution include a broth obtained from beans such as an adzuki bean or bean broth obtained in a production process of a bean paste.

[0010] As the polystyrene resin for adsorption, for example, SEPABEADS SP-850 (trade name) available from Mitsubishi Chemical Corporation can be used for the present invention.